

Datasheet: MCA2298FT BATCH NUMBER 154383

Description:	HAMSTER ANTI MOUSE CD29:FITC
Specificity:	CD29
Other names:	INTEGRIN BETA 1 CHAIN
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	HM beta 1-1
lsotype:	lgG
Quantity:	25 µg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes No	Not Determined	Suggested Dilution	
	Flow Cytometry	-		Neat - 1/10	
	Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.				
Target Species	Mouse				
Species Cross Reactivity	Reacts with: Rat N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.				
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid				
Max Ex/Em	Fluorophore FITC	Excitation Max (nm) 490	Emission Max (nm) 525		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant				

Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml	
Immunogen	Purified mouse VLA-4 antigen.	
External Database Links	UniProt: <u>P09055</u> <u>Related reagents</u> Entrez Gene: <u>16412</u> Itgb1 <u>Related reagents</u>	
RRID	AB_1101781	
Fusion Partners	Spleen cells from immunized Armenian hamsters were fused mouse myeloma cell line.	with cells of the P3U1
Specificity	 Hamster anti Mouse CD29 antibody, clone HM beta 1-1 recebeta 1 subunit (CD29), a ~110 kDa cell surface glycoprotein the variety of cells including all leucocytes. CD29 forms non-coval alpha subunits, including CD51 and CD49a-f, to form heterodi heterodimers include collagen, fibronectin, laminin and vasculate the immune system beta 1 integrins play an important role in cactivation and differentiation. Hamster anti Mouse CD29 antibody, clone HM beta 1-1 is reprintegrin mediated adhesion (Noto <i>et al.</i> 1995). 	hat is widely expressed by a lent bonds with the integrin mers. The ligands for these ar adhesion molecule-1. In cell adhesion, migration,
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells ir	n 100ul.
	The Fc region of monoclonal antibodies may bind non-specific affinity Fc receptors. This may be reduced by using SeroBlock	
References	 Noto, K. <i>et al.</i> (1995) Identification and functional character a mAb. <u>Int Immunol. 7 (5): 835-42.</u> Lu, T.Y. <i>et al.</i> (2010) Epithelial cell adhesion molecule regul maintenance of the undifferentiated phenotype of human emb <u>Chem. 285: 8719-32.</u> Li S <i>et al.</i> (2010) Upregulation of CXCR4 favoring neural-like activation. <u>Neurosci Res. 67 (4): 293-9.</u> Eto, D.S. <i>et al.</i> (2007) Integrin-mediated host cell invasion b uropathogenic Escherichia coli. <u>PLoS Pathog. 3: e100.</u> Tiede, B.J. <i>et al.</i> (2009) A novel mouse model for non-invasion 	ation is associated with the ryonic stem cells. <u>J Biol</u> se cells migration via AKT by type 1-piliated

	 mammary stem cells in vivo reveals stem cell dynamics throughout pregnancy. <u>PLoS One.</u> <u>4 (11): e8035.</u> 6. Kouros-Mehr H (2008) GATA-3 links tumor differentiation and dissemination in a luminal breast cancer model. <u>Cancer Cell. 13: 141-52.</u> 7. Xu, L. <i>et al.</i> (2017) Umbilical cord-derived mesenchymal stem cells on scaffolds facilitate collagen degradation via upregulation of MMP-9 in rat uterine scars. <u>Stem Cell Res Ther. 8 (1): 84.</u>
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
	Avoid repeated freezing and thawing as this may denature the antibody.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2298FT 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL: FITC (MCA2356F)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M366596:200529'

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